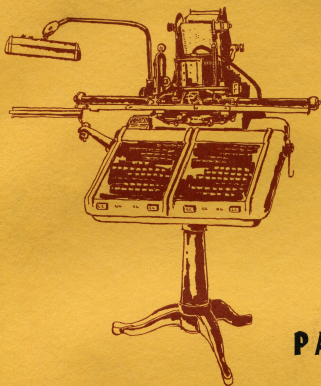




PARTS LIST

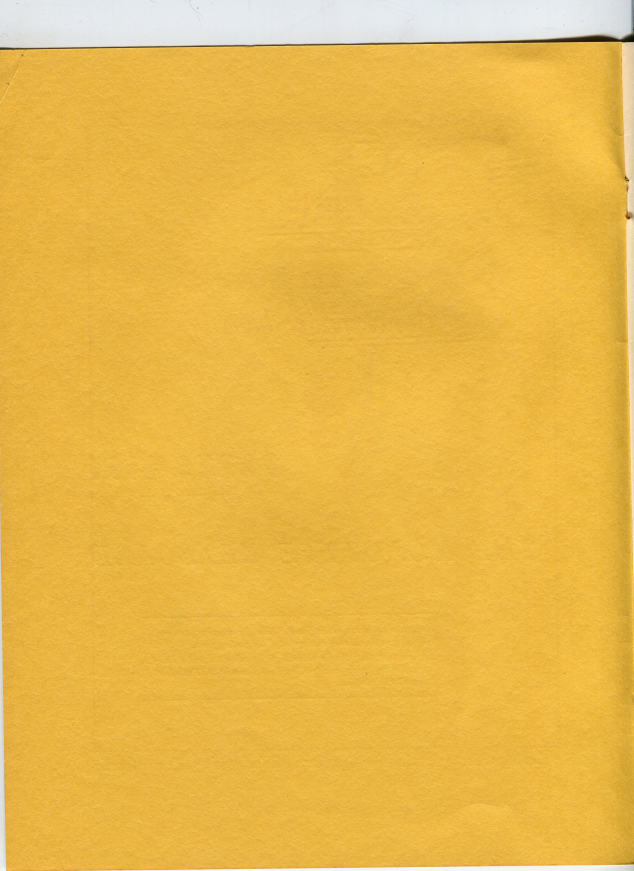
EFFECTIVE APRIL 1, 1952

THE MONOTYPE KEYBOARD

WITH A PREFACE which gives directions for ordering parts and a simple explanation of our method of designating parts.

THIS PARTS LIST is for use with Keyboards 6800 and following. For Keyboards prior to 6800, if not shown in this Parts List, consult Philadelphia.

Lanston Monotype Machine Company, Philadelphia 3, Pennsylvania



Parts List

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Lanston Monotype Machine Company

PHILADELPHIA

Lanston Monotype Machine Company

BRANCH OFFICES:

ATLANTA, GEORGIA	<i>116 Spring Street, North West</i> PHONE, Main 1854
BOSTON, MASSACHUSETTS	<i>170 Summer Street</i> PHONE, Liberty 2-6990, 2-6991
SAN FRANCISCO, CALIFORNIA	<i>Sharon Building, 55 New Montgomery Street</i> PHONE, Sutter 1-6275
CHICAGO, ILLINOIS	<i>216 West Jackson Boulevard</i> PHONE, State 2-2768, 2-2769
TORONTO, ONTARIO Canada	<i>77 York Street, 4th Floor</i> PHONE, Empire 3-8747, 3-8748
NEW YORK, NEW YORK	<i>Room 802, 441 Lexington Avenue</i> <i>(North East Corner East 44th Street)</i> PHONE, Vanderbilt 6-3155, 6-3156
NEW YORK, NEW YORK Barrett Division	<i>Room 402, 114 Liberty Street</i> PHONE, Worth 2-6260
PHILADELPHIA, PENNSYLVANIA	<i>Twenty-fourth at Locust Street</i> PHONE, Locust 7-4614

DIRECTIONS FOR ORDERING PARTS

(A Careful Reading Is Important)

All of these directions are essential. You will save time, trouble and money by reading them carefully before ordering any parts.

If you are not familiar with the Monotype terms here used, read "Designation of Parts" which follow these "Directions for Ordering Parts."

To enable us to fill orders correctly you must give us the following information:

- (1) Give the number of the Keyboard for which the part is required (stamped on the Name Plate).
- (2) Give the name of the part.
- (3) Give the symbol of the part (give every character in the symbol exactly as printed—every one means something).
- (4) Give the quantity required of each part.

To insure getting the correct name and symbol:

Use the Plate Book in conjunction with this Parts List.

DESIGNATION OF PARTS

(Name)	(Quantity)	(Classification Number)	(Symbol)
Em-rack Slide head Screw (2)	233		4KB3

NAME: Shows that these Screws hold in place the Em-rack Slide head.

QUANTITY: Two of these Screws; where no quantity is given "1" is understood.

CLASSIFICATION NUMBER: Standard pieces which may be used in several places under different symbols are given classifying numbers; those numbers beginning with "1" are bolts, "2" screws, "3" nuts, "4" washers, "5" dowels, "6" springs, "7" rivets, "8" spring pins and posts, "9" cotters. All pieces having the same classification number are alike without regard to what their symbols may be.

SYMBOL: Identifies and locates the part. The letters "KB" indicate that these Screws are in the "KB" section (the Keyboard being divided into three Sections lettered KA, KB, and KC). The figure 5 preceding the letters indicates that these Screws are in the fifth group of this section (the groups comprising each section being numbered consecutively from one up). The figure 3 following the letters indicates that these Screws are the third pieces of this group (the individual pieces comprising each group being numbered thus consecutively). If a lowercase letter precedes the first figure in the symbol (for example, Bell a1KB1) it indicates that there have been one or more changes in the piece and the new piece is not interchangeable with the superseded one without changing or altering other parts. If the letter "K" appears as the last character of the symbol (for example, a2KB1K) it indicates that this piece is furnished only assembled with one or more other pieces, in which case a reference mark and a note at the end of the group gives details for the assembly. When a cap "X" is the first character of a symbol (for example, X3KB) it calls for the complete group as listed above it.

Section KA

Mechanism for transferring the motion of the Keys, when depressed by the operator, to the required Valve-bank Plungers; includes also the Base and Standard.

b1KA1
Bush.....
bushing (support for 16KA3).....
cover.....
* lathe.....
" knob.....
" support (2).....
" rivet (4).....
adjusting screw (for 21KA2) (4).....
Base group.....
* 1KA2K is assembled with 1KA3A, 1KA4A, 1KA5 and 1KA6.....
2KA= Base Standard.....
screw (for raising Xb1KA).....
" hand wheel.....
" lock nut.....
Base Standard group.....
* 2KA1K is assembled with 2KA3, 2KA4, and 2KA6. Order by complete symbol X2KA.....
3KA=Copy Bracket.....
extension.....
" clamp.....
* collar.....
" nut.....
stud.....
COPY BRACKET group.....
4KA=Copy Holder (10" wide).....
paper guide.....
roller (2).....
" bracket (2).....
" plug screw (2).....
" screw (2).....
" spring (2).....
" plunger (2).....
thumb screw.....
COPY HOLDER group.....
For 20" wide Copy Holder see X2KA4.....
5KA=Copy Hook (2).....
slip (2).....
COPY HOOK group (2) (each).....
For 1315 Metric Case.....
6KA=Keypad (left).....
bracket (left).....
" screw (2).....
" (right).....
button (designate by character) (138).....
" lever (regular) (lug to left) (71) (" " right) (71).....
" justifying space (2).....
" abutment rod (13).....
" fulcrum rod (19).....
" tie bar (lower).....
" " rivet (4).....
" (upper).....
number (in 6KA1) (4).....
KEYPAD GROUP (left).....
* 6KA9K is assembled with 6KA14 and 6KA16K.....
* 6KA16K is assembled with 6KA17.....
For 1317 Metric Case.....
6KA=Keypad (left).....
bracket (left).....
" screw (2).....
" (right).....
button (designate by character) (143).....
" lever (regular) (lug to left) (78)..... (" " right) (71).....
" justifying space (2).....
" abutment rod (14).....
" fulcrum rod (14).....
" tie bar (lower).....
" " rivet (4).....
" (upper).....
" finger plate.....
number (in b6KA30) (4).....
KEYPAD GROUP (left).....
* 6KA18K is assembled with 6KA14 and 6KA15.....
* 6KA18K is assembled with 6KA17.....
b1KA1
1KA7
1KA2K *
1KA3
1KA4
1KA5
1KA6
1KA7A
Xb1KA
a2KA1K *
2KA3
2KA4
2KA5
X2KA
a3KA1
a3KA2
a3KA3
a3KA4
a3KA5
3KA6
Xa3KA
a4KA1
a4KA3
a4KA4
a4KA5
a4KA6
a4KA7
Xa4KA
5KA1
5KA2
X5KA
6KA1
6KA2
6KA3
6KA4
6KA5
6KA6
6KA7
6KA8
6KA9K *
6KA10
6KA11
6KA12
6KA14 *
6KA15
6KA16K *
6KA17
+
X6KA
b6KA36
b6KA37
6KA3
b6KA40
6KA41
6KA8
6KA7
6KA8
6KA9K *
6KA10
6KA11
6KA12
6KA14
6KA15
6KA16K *
6KA17
a6KA18
Xb6KA36

For 1515 Matrix Case.		
*KA1—Keybank (right).....		7KA1
<i>bracket</i> (<i>left</i>).....		7KA2
<i>screw</i> (2).....	236..	7KA3
(<i>right</i>).....		7KA4
<i>screw</i> (2).....	238..	7KA5
<i>button</i> (<i>designate by character</i>) (138).....		7KA6
<i>lever</i> (<i>regular</i>) (<i>lug to left</i>) (72).....		7KA7
() = <i>finger plate</i> (<i>right</i>) (66)		7KA8
() = <i>(qualifying space)</i> (2).....		7KA9*
<i>abutment rod</i> (13).....		7KA10
<i>fulcrum rod</i> (13).....		7KA11
() = <i>sleeve</i> (<i>long</i>).....		7KA12
<i>tie bar</i> (<i>lower</i>).....		7KA14 *
= <i>rivet</i> (4).....	7167..	7KA15
(<i>upper</i>).....		7KA16K
<i>finger plate</i>		7KA17
number (<i>in</i> 7KA1) (4).....		a7KA18
*KEYBANK group (<i>right</i>).....		X7KA
*7KA9K is assembled with 7KA14 and 7KA15.		
*7KA16K is assembled with 7KA17.		
For 1517 Matrix Case.		
7KA—Keybank (<i>right</i>).....		b7KA9K
<i>bracket</i> (<i>left</i>).....		b7KA37
<i>screw</i> (2).....	236..	7KA3
(<i>right</i>).....		b7KA40
<i>button</i> (<i>designate by character</i>) (143).....		7KA5
<i>lever</i> (<i>regular</i>) (<i>lug to left</i>) (83).....		7KA6
() = <i>(right)</i> (66)		7KA8
<i>(qualifying space)</i> (2).....		7KA9*
<i>abutment rod</i> (14).....		7KA10
<i>fulcrum rod</i> (14).....		7KA11
() = <i>sleeve</i> (<i>long</i>).....		7KA12
<i>tie bar</i> (<i>lower</i>).....		*7KA14
= <i>rivet</i> (4).....	7167..	7KA15
(<i>upper</i>).....		7KA16K
<i>finger plate</i>		7KA17
number (<i>in</i> b7KA36) (4).....		a7KA18
*KEYBANK group (<i>right</i>).....		Xb7KA36
*7KA9K is assembled with 7KA14 and 7KA15.		
*7KA16K is assembled with 7KA17.		
For 1515 Matrix Case.		
SKA—Keybar (<i>left bank</i>) (<i>designate as stamped</i>) (143) ..		SKA1
<i>frame</i>		bSKA2K
<i>guide</i> (<i>front</i>).....		aSKA3
= <i>brace</i>		aSKA9K +
(<i>rear</i>) (2).....	7222..	aSKA18
<i>screw</i> (2).....	223..	aSKA19
(<i>rear</i>).....		aSKA13
<i>screw</i> (2).....	227..	aSKA14
number.....		aSKA16
stop bar.....		bSKA11
= <i>screw</i> (3).....	233..	aSKA12
KEYBAR (<i>left bank</i>) group.....		XSKA
*bSKA2K is assembled with SKA1, aSKA9K, aSKA10, bSKA11, aSKA12, aSKA13, aSKA14 and SKA16. Order by the complete symbol XSKA.		
*bSKA12 is assembled with aSKA18 and aSKA19.		
For 1517 Matrix Case.		
SKA—Keybar (<i>left bank</i>) (<i>designate as stamped</i>) (164) ..		aSKA21
<i>frame</i>		bSKA22K*
= <i>pin</i>		aSKA3
<i>guide</i> (<i>front</i>).....		aSKA21K
= <i>brace</i>		aSKA18
= <i>rivet</i> (2).....	7222..	+ aSKA10
<i>screw</i> (2).....	223..	aSKA10
(<i>rear</i>).....	227..	aSKA24
<i>screw</i> (2).....	227..	aSKA14
number (4).....		aSKA16
stop bar.....		bSKA11
= <i>screw</i> (3).....	233..	aSKA12
KEYBAR (<i>left bank</i>) group.....		XbSKA21
*bSKA22K is assembled with SKA21, aSKA3, aSKA21K, aSKA10, bSKA11, aSKA12, aSKA13, and SKA16. Order by complete symbol XbSKA21.		
*aSKA23K is assembled with aSKA18 and aSKA19.		
For 1513 Matrix Case.		
9KA—Keybar (<i>right bank</i>) (<i>designate as stamped</i>) (143) ..		9KA1
<i>frame</i>		b9KA2K
<i>guide</i> (<i>front</i>).....		a9KA3
= <i>brace</i>		e9KA9K
= <i>rivet</i> (2).....	7222..	e9KA18
<i>screw</i> (2).....	223..	a9KA10
(<i>rear</i>).....		a9KA19
<i>screw</i> (2).....	223..	a9KA10
(<i>rear</i>).....		a9KA19

3KA—Keybar (right bank) (continued)		
guide screw (2).....	227..	a0KA14
stop bar.....		a0KA16
" screw (3).....	233..	b0KA11 *
KEYBAR (right bank) group.....		X9KA
a0KA2K is assembled with a0KA1, a0KA4, a0KA9K, a0KA10, b0KA11, a0KA12, a0KA13, a0KA14 and a0KA16. Order by the complete symbol X9KA.		
b0KA19K is assembled with a0KA18 and a0KA19.		
For 1517 Matrix Case.		
9KA—Keybar (right bank) designate as stamped (154).....		a0KA21
" pin.....		b0KA22K
guide (front).....		a0KA3
" brace.....		a0KA23K *
" rivet (2).....	7222..	a0KA19
" screw (2).....		a0KA10
" (rear).....		a0KA24
" screw (4).....	227..	a0KA14
number (4).....		9KA16
stop bar.....		b0KA11
" screw (3).....	233..	a0KA12
KEYBAR (left bank) group.....		X9KA21
b0KA2K is assembled with a0KA21, a0KA23, a0KA23K, a0KA10, b0KA11, a0KA12, a0KA24 and 9KA16. Order by complete symbol X9KA.		
a0KA23K is assembled with a0KA18 and a0KA19.		
10KA—Name Plate (large).....		10KA1
Name 10KA1 (4).....	2279..	10KA2
for Flow Plate group.....		X10KA
11KA—Rock Shaft (33).....		11KA1K *
post (long) (0 in each shaft) (108).....		11KA2 *
" (short) (2 in each shaft) (66).....		11KA3 *
rod (long) (2 in each shaft) (66).....		11KA4 *
" (short) (2 in each shaft) (33).....		11KA5 *
ROCK SHAFT group.....		X11KA
Each Rock Shaft 11KA is assembled with six 11KA2, two 11KA3, two 11KA4 and one 11KA5.		
12KA—Rock-shaft Bracket (left).....		12KA1
(right).....		12KA2
" pin (in a0KA3IC) (2).....	7223	a12KA2K
" guide (for b12KA3K) (front) (2).....	12KA4	a12KA20
" screw (4).....	233..	12KA5
" screw (front) (2).....	232..	12KA6
" (side) (2).....	233..	12KA7
" stop (in b12KASRK) (2).....	a12KA9	b12KA8K *
" guide (for b12KA3K) (rear) (2).....	a12KA9	b12KA9 *
" screw (4).....	233..	12KA10
" (large).....	234..	12KA11
" (small) (2).....	235..	12KA12
" tie bar.....		12KA13
" " " screw (2).....	223..	12KA14
" screw (3).....	226B..	12KA15
stop bar (2).....		12KA16
stop-bar bracket (2).....		a12KA21
ROCK-SHAFT BRACKET group.....		X12KA
b12KA3K is assembled with a12KA10, a12KA11 and a12KA12.		
b12KA2K is assembled with X11KA.		
Keyboards 10493, 10911 and following discard a12KA30 and use a1KA6.		
13KA—Valve Bar C, M, L, J, G, D, N, F, O, H, I, K, E, 17, S, A, 1 (each).....		b13KA1K *
" to.....		b13KA19K
" inclusive.....		13KA17K *
JD.....		13KA18
" plate.....		13KA19
" rivet (2).....	7167..	13KA20K *
R.....		13KA21
" plate.....		13KA22 *
" rivets (2).....	7167..	13KA23K
B, 6, 8, 3, 12, 1, 9, 16, 7, 14, 2, 10, 13, 5, 16, 4, 11 (1 each).....		b13KA22K *
" to.....		b13KA36K
" inclusive.....		a13KA48K *
JD extension (08).....		a13KA49 *
" bell crank (33).....		a13KA50 *
" bearing (33).....		a13KA54 *
bag (JD).....		a13KA53 *
" rivet (2).....	7167..	13KA
VALVE BAR group.....		X13KA

13KA—Valve Bar (continued)

*b13KA1K to b13KA16K inclusive and b13KA23K to b13KA29K inclusive are each assembled with a13KA49, a13KA50 and a13KA54.
 *a13KA45K is assembled with a13KA49, a13KA52 and a13KA55.
 *a13KA17K is assembled with a13KA18 and a13KA19.
 *a13KA20K is assembled with a13KA21 and a13KA22.

14KA—Valve Returning Rock Shaft..... a14KA1K *
 fulcrum screw (2)..... 14KA2
 " nut (2)..... 314
 finger (2)..... 14KA3
 operating arm..... 14KA5
 " rod..... 14KA6
 " head..... 14KA7
 " nut..... 31
 " spring..... 6139
 " washer..... 436
 VALVE RETURNING ROCK SHAFT group..... **Xa14KA**
 *a14KA1K is assembled with a14KA4 and a14KA5.

15KA—Copy-hook-ring Screw..... 29..... 15KA1

16KA—Justifying Space Cut Out..... a16KA1
 operating rod..... 16KA2
 " guide block..... 16KA3
 " " screw..... 127
 " head..... 16KA5
 JUSTIFYING SPACE CUT OUT group..... **Xa16KA**

24KA—Copy Holder (twenty-line)..... 24KA1
 paper guide..... 24KA3
 roller (2)..... 24KA4
 " bracket (2)..... a24KA5
 " plug screw (2)..... 226
 " screw (2)..... 24KA7
 " spring (2)..... 6153
 " plunger (2)..... 24KA9
 thumb screw..... 24KA2
 COPY HOLDER group..... **X24KA**

For Fluorescent Copy Lamp see 45KA.

25KA—Copy Lamp..... 25KA1
 (16 p. spec.) (specify voltage)..... 25KA2
 cord insulator (short) (in 25KA2)..... 25KA3
 " (long) (in b1KA1)..... 25KA4
 plug..... 25KA5
 shade..... 25KA6
 sockets (Hubbarn)..... 25KA7
 COPY LAMP group..... **X25KA**

26KA—Copy-lamp Cord..... 26KA1
 tube..... 26KA2
 COPY-LAMP CORD group..... **X26KA**

28KA—Copy-lamp-tube Clamp (inside)..... 28KA1
 (outside)..... 28KA2
 stud..... 28KA3
 nut..... 28KA4
 COPY-LAMP-TUBE CLAMP group..... **X28KA**

29KA—Copy-lamp-tube-clamp Base..... 29KA1
 screw (2)..... 222
 COPY-LAMP-TUBE-CLAMP BASE group..... **X29KA**

31KA—Engine Beam..... 31KA1

32KA—Engine-beam Fulcrum Rod..... 32KA1
 outer (2)..... 32KA2
 ENGINE-BEAM FULCRUM ROD group..... **X32KA**

33KA—Engine Bracket..... a33KA1
 cylinder head (lower)..... 33KA2
 " (upper)..... 33KA3
 " plug screw (2)..... 2235
 " piston (upper)..... 33KA5
 " (lower)..... 33KA9
 " stop..... 33KA6
 " nut..... 35
 screw (2)..... 221
 33KA8
 33KA10
 ENGINE BRACKET group..... **X33KA**

34KA—Engine Latch..... a34KA3
 pin..... 34KA2
 ENGINE LATCH group..... **X34KA**

35KA—Engine-latch Bracket..... 35KA1
 screw (2)..... 35KA2
 spring post..... 35KA3
 ENGINE-LATCH BRACKET group..... **X35KA**

36KA—Engine-latch Fulcrum Stud..... a36KA1
 cottar..... 94
 nut..... 35
 spring..... 626
 ENGINE-LATCH FULCRUM STUD group..... **X36KA**

37KA—Engine-latch Lever..... 37KA1 *

*This part will no longer be furnished. Order instead ESSENC LATCH complete X34KA.

38KA—Engine-latch Spring..... 610..... 38KA1

39KA—Engine-latch Tie Plate (2)..... 39KA1
 bolt..... 242
 " nut..... 35
 ENGINE-LATCH TIE PLATE group..... **X39KA**

Note: These parts will be furnished only for repairs since they have been superseded by the ESSENC LATCH X34KA.

40KA—Engine Pipe (to lower Piston)..... 40KA1
 (to upper Piston)..... 40KA2
 connection (upper)..... a40KA3
 " screw (upper) (2)..... 232
 " (lower)..... 40KA5
 " screw (2)..... 2225
 ENGINE VALVE..... 40KA7

ENGINE VALVE..... 40KA8
 body..... 40KA9
 " head (upper)..... a40KA2
 " (lower)..... 40KA10
 " oil pipe..... 40KA13
 " cap..... 40KA14

pipe..... 40KA10
 spring..... 6135
 engine check valve (2)..... 40KA11
 " body..... a40KA16
 " nut (2)..... 35
 ENGINE PIPE group..... **X40KA**

*40KA8K is assembled with 40KA1, 40KA2, 40KA5 and 40KA10.
 *H ENGINE VALVE is not already equipped with 0n PIPE, order together a40KA12, a40KA13 and a40KA14.

44KA—Keybutton Clips..... X44KA

45KA—Fluorescent Copy Lamp (specify voltage)..... a45KA1
 rod plug..... 45KA5
 bracket..... 45KA6
 " screw (2)..... 232
 screw (3)..... 233
 tube (white T5-8 watt)..... 45KA8
 Fluorescent COPY LAMP group..... **X45KA**

Section KB

Mechanisms for counting and registering ems and units, justifying spaces, and lines set for indicating the proper justification; and for driving and reversing these mechanisms.

Unit-wheel Standard

Complete for 90 em..... **b46KB1KKKK ***
 *a46KB1KKKK is assembled with X3KB, a45KB4, a45KB7, Xa6KB, 7KB2, 7KB3, a7KB4, Xa8KB, a9KB6K, a9KB8, a9KB9, Xa11KB, 12KB1, X13KB, Xa14KB, X15KB, X16KB, X17KB, X18KB, Xa19KB, Xa20KB, X20KB, a20KB1, Xa27KB, X28KB, X29KB, X30KB, X31KB, Xa33KB, Xa34KB, X35KB, 36KB2, 36KB3, 36KB5, 36KB6, a36KB7, a36KB8, a36KB9, a36KB10, a36KB11, a36KB12, 37KB2, 37KB3, 37KB4, 37KB5, a37KB6, a37KB7, a37KB9, Xa38KB, X39KB, a40KB1, X41KB, X42KB, 43KB1, Xa46KB, 62KB1, Xa6KB, X7KB, X74KB, X76KB and 39KC10.

1KB—Bell..... a1KB1
 bracket..... a1KB2K
 clamp (for a2KB1)..... 1KB3
 " screw..... 247
 " pin..... a1KB5
 " plug (head for cylinder)..... 1KB6
 " screw (long)..... 231
 " (short)..... 233
 " spring post (for a2KB1)..... a1KB13
 " " (for a2KB12)..... a1KB9
 " stud (for a1KB1)..... a1KB10
 " nut..... 35
 screw..... 232
 BELL group..... **Xb1KB**

*a1KB2K is assembled with 1KB3, a1KB10, a1KB9 and a1KB13.

Keyboards prior to 6966 were equipped with:

Bell..... 1KB1
 bracket..... a1KB2K *
 bracket stud..... 1KB10
 screw..... 234
 *a1KB2K is assembled with 1KB3, 1KB10, 1KB11 and a1KB13.

2KB—Bell Hammer..... a2KB1K *
 head..... 2KB2
 lever..... a2KB3K
 " bell crank..... a2KB6
 " " pin..... a2KB10
 " fulcrum stud..... 2KB4
 " nut..... a2KB11
 " " nut..... 35
 spring..... 2KB5
 " post..... 885
 stud..... 33
 " nut..... 35
 lever bell crank spring..... 6132
 fulcrum stud..... a2KB17
 " " washer..... 453
 BELL HAMMER group..... **Xe2KB**

*a2KB1K is assembled with 2KB2 and 2KB3.
 *a2KB13K is assembled with a2KB6, a2KB10 and a2KB11.

Keyboards prior to 6966 were equipped with:
 BELL HAMMER..... 2KB1K *
 *a2KB1K is assembled with 2KB2 and 2KB3.

3KB—Bell Trip Lever..... 3KB1
 spring..... 6129
 stud..... 3KB2
 BELL TRIP LEVER group..... **X3KB**

4KB—Em Rack..... a4KB1K *
 bell trip..... 4KB2
 pointer..... a4KB3
 Em RACK group..... **Xa4KB**

Keyboards equipped with Ninety-em Scale use:
 Em RACK..... a4KB4K
 *a4KB4K is assembled with 4KB2 and a4KB3.

5KB—Em-rack Slide..... b5KB1K *
 head..... 5KB2
 " screw (2)..... 233
 screw (2)..... 5KB4
 spring post..... 885
 Em-RACK SLIDE group..... **Xb5KB**

*b5KB1K is assembled with 5KB2, 5KB3, and 5KB6.

Keyboards equipped with Ninety-em Scale use:
 Em-RACK SLIDE..... a5KB7K *
 *a5KB7K is assembled with 5KB2, 5KB3, and 5KB6.

6KB—Em-rack Stop (left handle)..... b6KB1
 (right handle)..... a6KB2
 pointer..... 6KB3K
 " guide pin..... 6KB4 *
 spring (2)..... 6161
 stud..... 6KB6
 Em-RACK STOP group..... **Xa6KB**

*6KB3K is assembled with 6KB4.

7KB—Em-rack-stop Rack..... b7KB1
 hook..... 7KB2
 " spring..... 685
 7KB3
 Em-RACK-STOP RACK group..... **Xb7KB**

Keyboards equipped with Ninety-em Scale use:

Em-RACK-STOP RACK..... b7KB4

8KB—Em-rack-stop-rack Adjusting Screw..... a8KB1K *
 head..... a8KB2 *
 " pin..... 7218
 " " 8KB3

Em-RACK-STOP-RACK ADJUSTING SCREW group..... **Xa8KB**

*a8KB1K is assembled with a8KB2 and 8KB3. Order by complete symbol Xa8KB.

9KB—Em Scale (65 em)..... a9KB1K *
 " (25 em)..... a9KB5
 " (10 em)..... a9KB6
 " " screw (2)..... a9KB3
 Em SCALE group..... **Xa9KB**

*a9KB1K is assembled with a9KB2.

Em SCALE (for Centering and Quadding Attachment) (65 em)..... a9KB10K *
 holder..... a9KB2 *
 *a9KB10K is assembled with a9KB2.

Em SCALE (90 em)..... a9KB6K *
 holder..... a9KB7 *
 *a9KB6K is assembled with a9KB7.

Em SCALE (for Centering and Quadding Attachment) (90 em)..... a9KB11K *
 holder..... a9KB7 *
 *a9KB11K is assembled with a9KB7.

10KB—Justifying Scale for standard composition (designate by set).....
for fourteen- and eighteen-point composition (designate by set).....

For justifying typesetter composition the same as ordinary type faces are justified the following special Justifying Scales are furnished:

JUSTIFYING SCALE (10 to inch typesetter).
JUSTIFYING SCALE (12 to inch typesetter).
JUSTIFYING SCALE (14 to inch typesetter).
JUSTIFYING SCALE (18 to inch typesetter).
NOTE: Either regular type or set type can be justified. Full directions for use are printed on the SCALE. No special equipment nor adjustments are required at the CARTRIDGE MACHINE which is run with the same equipment as if the matter were not to be justified.

11KB—Justifying-scale Driving Rack......
adjusting screw.....
nut.....
piston.....
rod.....
JUSTIFYING-SCALE DRIVING RACK GROUP.....

12KB—Justifying-scale Gear......
Keyboards prior to D18716, D18803 (except D18707) were equipped with.....
JUSTIFYING-SCALE GEAR stud.....
NOTE: The part is obsolete and will no longer be furnished, ordered instead the improved STCP 44KB32 to prevent it from working loose. The improved part 44KB32 is forced in place instead of being screwed in, which prevents it from working loose. The new STCP 44KB32 can be applied to an old UNTY-WHEEL-STANDARD CAP if the old CAP is sent in to our factory.

13KB—Justifying-scale Pinion......
pin (3).....
post (for 69KB36).....
stud.....
JUSTIFYING-SCALE PINION GROUP.....
44KB32 is assembled with 13KB2 and 13KB3.

14KB—Justifying-scale Pointer......
bracket.....
screw.....
plate.....
rivet.....
rack.....
nut (for 14KB2).....
pin (trip for 14KB2).....
JUSTIFYING-SCALE POINTER GROUP.....
44KB32 is assembled with 14KB10 and 14KB11.
14KB32K is assembled with 14KB5.

15KB—Justifying-scale-pointer Detent Pawl......
pawl.....
spring.....
post (in Pawl).....
JUSTIFYING-SCALE-POINTER DETENT PAWL GROUP.....
15KB32K is assembled with 15KB2 and 15KB4.

16KB—Justifying-scale-pointer Lifting Pawl......
pawl.....
spring.....
stud (in Pawl).....
JUSTIFYING-SCALE-POINTER LIFTING PAWL GROUP.....
16KB32K is assembled with 16KB2 and 16KB4.

17KB—Justifying-scale-pointer Operating Lever......
fulcrum stud.....
nut.....
piston link.....
stud (for 16KB1K).....
cutter (for 17KB4).....
cutter (for 17KB6).....
water (for 17KB6).....
JUSTIFYING-SCALE-POINTER OPERATING LEVER GROUP.....
17KB32K is assembled with 17KB5, 17KB6, 17KB7 and 17KB8.

18KB—Justifying-scale-pointer-pawl-spring Post (in 44KB1K, for 15KB3).....
nut.....
plate (for 18KB3).....
JUSTIFYING-SCALE-POINTER-PAWL-SPRING POST GROUP.....

19KB—Justifying-scale-pointer-rack Guide Plate......
screw (4).....
JUSTIFYING-SCALE-POINTER-RACK GUIDE PLATE GROUP.....

23KB—Line Counter......
split collar (on shaft).....
clamp screw.....
LINE COUNTER GROUP.....

24KB—Restoring Rocker Arm......
link (for 24KB3K).....
lever (for raising 24KB3K).....
fulcrum stud.....
nut.....
stud (for 24KB3).....
cutter.....
washer.....
piston link.....
shaft.....
nut.....
set screw.....
washer.....
stud (for 24KB2).....
cutter.....
washer.....
cutter (for 24KB3).....
cutter.....
washer.....
cutter (for 24KB10).....
cutter.....
washer.....
RESTORING ROCKER ARM GROUP.....
24KB32K is assembled with 24KB13 to 24KB18 inclusive.
24KB34K is assembled with 24KB7, 24KB8 and 24KB9.

25KB—Unit Indicator......
bracket.....
screw.....
washer.....
UNIT INDICATOR GROUP.....

26KB—Unit Rack......
Keyboards D16132, 6137, 6263, 6265, 6332, 6333, 6335, 6336, 6338 to 6341 inclusive, 6344, 6350, 6353, 6360 to 6369 inclusive, 6405 to 6414 inclusive, 6417, 6419, 6420, 6422 to 6423 inclusive, 6447 to 6448 inclusive, D16643, 6387, 6389 to 6394 inclusive, 6396 to 6400 inclusive, 6451 to 6988 inclusive, were equipped with:
UNIT RACK.....

27KB—Unit-rack Abutment......
bracket.....
nut.....
screw (3).....
spring post (for 27KB3).....
bracket stud (3).....
washer (3).....
detent.....
spring.....
spring (for 27KB1).....
JUSTIFYING-SCALE-POINTER-PAWL-SPRING POST GROUP.....
27KB32K is assembled with 27KB17.
27KB32K1K is assembled with 27KB12.

Keyboards D16133, 6137, 6263, 6265, 6332, 6333, 6335, 6336, 6338 to 6341 inclusive, 6344, 6350, 6353, 6360 to 6369 inclusive, 6405 to 6414 inclusive, 6417, 6419, 6420, 6422 to 6423 inclusive, 6447 to 6448 inclusive, D16643, 6387, 6389 to 6394 inclusive, 6396 to 6400 inclusive, 6451 to 6988 inclusive, were equipped with:
UNIT-RACK ABUTMENT.....
UNIT-RACK-ABUTMENT ADJUSTING STUD (in 44KB1K).....
UNIT-RACK-ABUTMENT ADJUSTING STUD GROUP.....

29KB—Unit-rack Slide......
eccentric bushing.....
guide.....
rivet (3).....
rivet (2).....
stud (for 29KB12).....
UNIT-RACK SLIDE GROUP.....
29KB32K is assembled with 29KB3, 29KB4, 29KB7K and 29KB8.

Keyboards D1501 to 6943 inclusive, D1501 to 6988 inclusive (except D1501 to 6925 inclusive, for which see above) were equipped with:
UNIT-RACK SLIDE.....
slide (for 29KB10).....
rivet (2).....
omit 29KB7 and 29KB8.
29KB32K is assembled with 29KB3 and 29KB4.

30KB—Unit-rack-slide Abutment......
adjusting screw (2).....
stud.....
UNIT-RACK-SLIDE ABUTMENT GROUP.....

31KB—Unit-rack Stop......
lug on post (1st, 3d, 5th, 7th, 9th, 11th, 13th, 15th, 17th) (9).....
(lug on bottom) (2d, 4th, 6th, 8th, 10th, 12th, 14th, 16th, 18th) (9).....
bracket.....
guide (right).....
left.....
rivet (4).....
screw (4).....
fulcrum rod.....
cutter (2).....
liner (.01" thick) (17).....
rod (1).....
cutter.....
separator (18).....
spring (4).....
ball (2).....
pin (2).....
UNIT-RACK STOP GROUP.....
31KB32K is assembled with 31KB4, 31KB5, 31KB6 and 31KB7.
NOTE: UNIT-RACK STOPS are numbered beginning at the left; that is, the four-unit Stop is No. 1, the five-unit Stop is No. 2, etc.

When ordering the following designate arrangement of Stopbar: for example 55, 515, etc.
32KB—Unit-rack-stop Bar (plain) (1).....
(with Block, Spring Plate and Rivets) (2).....
cam.....
cap.....
screw (2).....
dummy plate (5).....
separator (17).....
rod (lower).....
collar (2).....
washer (30).....
shoe (lower).....
washer (upper).....
screw (4).....
spring post (for 32KB10) (2).....
spring (for 9- and 10-unit Bars) (2).....
UNIT-RACK-STOP BAR GROUP.....
32KB32K is assembled with 32KB3, 32KB4, 32KB5, 32KB6, 32KB7, 32KB8, 32KB9, 32KB10, 32KB11, 32KB12, 32KB13, 32KB14, 32KB15 and 32KB16. Order by complete symbol 32KBK.

For composing typesetter faces either in standard type or short type, the regular Stopbars are replaced by a special Stopbar marked "Typesetter Attachment" which retains all characters the same width.
Typesetter Attachment.
NOTE: At the CARTRIDGE MACHINE the DISPLAY TYPE NORMAL WIDTH is required, or the special TYPESETTER WIDTH (X21D7) is used, using principally for short type to cast 10, 12, 14, and 18 to the finish on a given Mold without change of adjustment except moving the WIDTH from one position to another.

32KB1K—Unit-rack-abutment Adjusting Stud (in 44KB1K).....
32KB2K.....
32KB3K.....
32KB4K.....
32KB5K.....
32KB6K.....
32KB7K.....
32KB8K.....
32KB9K.....
32KB10K.....
32KB11K.....
32KB12K.....
32KB13K.....
32KB14K.....
32KB15K.....
32KB16K.....

33KB—Unit-rack Stop Guide...... a33KB1
adjusting screw..... 2186. a33KB4
nut..... 35. a33KB5
UNIT-RACK-STOP GUIDE GROUP..... **Xa33KB6**

34KB—Unit-rack-guide-stop Abutment bracket...... a34KB5
a34KB2
" screw (2)..... 223. a34KB3
spring..... 630. a34KB6
UNIT-RACK-STOP-GUIDE ABUTMENT GROUP **Xa34KB8**

35KB—Unit-Wheel..... b5KB1K *
rivet (6)..... 7199. a35KB3
plate..... a35KB2
UNIT-WHEEL GROUP..... **Xb35KB8**
*35KB1K is assembled with a35KB2 and
*35KB3. Order by complete symbol
Xb35KB3.

36KB—Unit-wheel Driving Cylinder (2)..... a36KB1
head (right)..... 36KB2
" (left)..... a36KB7
head abutment..... a36KB8
" " spring..... 6151. a36KB9
" stud..... a36KB6
ring (2)..... 46KB33
" pipe (2)..... a36KB4
" union (male end)..... 36KB5
" nut (2)..... 36KB6
UNIT-WHEEL DRIVING CYLINDER GROUP **Xa36KB8**

Keyboards equipped with Ninety-one Scale size:

UNIT-WHEEL DRIVING CYLINDER (2)..... a36KB11
ring pipe (2)..... a36KB12

37KB—Unit-wheel Driving Rack..... a37KB1
piston (2)..... 37KB2
" parking (leather) (2)..... 37KB3
" stud (2)..... 37KB4
" washer (2)..... 445. a37KB5
" screw (2)..... 217. a37KB6
rider (stop for a1KB1)..... a37KB7
UNIT-WHEEL DRIVING RACK GROUP **Xa37KB8**

Keyboards equipped with Ninety-one Scale size:

UNIT-WHEEL DRIVING RACK..... a37KB9

38KB—Unit-wheel Pawl..... a38KB1K *
bushing..... 38KB2
" collar..... 38KB3
connecting link..... 38KB4
" pin (2)..... a38KB5
latch lock (for a2KB1)..... 38KB6
" operating link (front)..... a38KB7
" " (rear)..... a38KB4
" bushing (rubber)..... a38KB8
" pin (latch end)..... 38KB9
" rivet (2)..... 7231. a38KB10
" separator..... 38KB11
operating lever (also raises a2KB1K)..... a38KB12
" oil pad..... a38KB13
UNIT-WHEEL PAWL GROUP..... **Xa38KB8**
*a38KB1K is assembled with 38KB2 to
38KB11 inclusive, a38KB12, a38KB13
and a38KB14. Order by complete symbol
Xa38KB1.

NOTE: We cannot furnish repair parts for the UNIT-WHEEL PAWL (except the Pins, Rivets and Oil Pad).

39KB—Unit-wheel-pawl Adjusting Bar..... 39KB1
nut..... 39KB2
UNIT-WHEEL-PAWL ADJUSTING BAR GROUP..... **Xa39KB8**

40KB—Unit-wheel-pawl-latch Spring..... a40KB1
6169. a40KB1

41KB—Unit-wheel-pawl Spring..... a41KB1
ink (per set of 3 pieces)..... a41KB4
plate..... a41KB2
gates..... a41KB3
UNIT-WHEEL-PAWL SPRING GROUP..... **Xa41KB8**

42KB—Unit-wheel-pawl-spring Post..... 42KB1
(in a40KB1K)..... 42KB2
nut..... 35. a42KB2
UNIT-WHEEL-PAWL-SPRING POST GROUP..... **Xa42KB8**

43KB—Unit-wheel-pawl Stud..... 43KB1

46KB—Unit-wheel Standard..... a46KB1
cap (for a3KB1)..... 46KB2
" (for a3KB1)..... b46KB23
" (for a3KB2)..... a46KB30K
head..... b46KB26
cap head pipe..... 46KB9
" union (male end) (2)..... 46KB10
" " nut (2)..... 46KB10
" screw (2) (for b46KB23)..... 232. a46KB11
" screw (4) (for b46KB3)..... 46KB11
" stud (for 16KB1K)..... 46KB12

46KB—Unit-wheel Standard (continued)

oil pipe..... a46KB19
screw (4)..... 223. a46KB13
spring post (for 3KB2)..... 851. a46KB14
" (for a3KB1)..... 859. a46KB15
stud (for 20KB2)..... a46KB16
" nut..... 35. a46KB17
" washer..... 426. a46KB18
" screw..... 2212. a46KB32
" " washer..... 436. a46KB34

UNIT-WHEEL STANDARD GROUP..... **Xa46KB8**
*a46KB1K is assembled with a46KB1,
46KB2, 46KB3, 46KB11, 46KB12, 46KB14
to 46KB18 inclusive, a46KB19,
46KB23 and a46KB32.

Keyboards D5920 to 8715 inclusive;
DD6001 to 8602 inclusive (except DD707,
for which see above) were equipped with:

UNIT-WHEEL STANDARD CAP..... a46KB3K
NOTE: The improved part a46KB5K has
the screw a46KB32 forced in place instead
of being screwed in, as was the super-
ceded JEFFERSON-SCALE-ARM STUD
12KB32. The new screw a46KB32 can be
applied to old UNIT-WHEEL STANDARD
Cap if the old Cap is sent to our factory.

48KB—Unit-wheel Positioner..... b48KB1K *
bracket..... 48KB2
" screw (2)..... 249. a48KB3
" " 48KB4
spring..... 6165. a48KB7
knob..... a48KB8
UNIT-WHEEL POSITIONER GROUP..... **Xa48KB8**
*a48KB1K is assembled with 48KB2,
48KB4, a48KB3 and 48KB7.
[The object of the UNIT-WHEEL POSITIONER
is to facilitate the setting of the UNIT
WHEEL in tabular work.]

61KB—Illuminator..... 61KB1
arm..... 61KB2
" screw (2)..... 2203. a61KB3
cylinder..... 61KB3K
" bushing..... 61KB15
lens..... 61KB6
" clamp..... 61KB6
" lock bar..... 61KB7
" screw (3)..... 251. a61KB8
plate (down)..... 61KB9
" (upper)..... 61KB10
scale..... 61KB11
shield..... 61KB12
" lock bar..... 61KB13
" screw (3)..... 251. a61KB14
ILLUMINATOR GROUP..... **Xa61KB8**
*61KB3K is assembled with 61KB3,
61KB6, 61KB7, a61KB8 and 61KB9 to
61KB14 inclusive.

62KB—Illuminator-arm Stud..... a62KB1
a62KB2
washer..... 419. a62KB3
ILLUMINATOR-ARM STUD GROUP..... **Xa62KB8**

63KB—Switch Illuminator..... a63KB1K *
bracket..... a63KB1K +
" screw (upper)..... 2221. a63KB25
" (lower)..... 2312. a63KB26
" collar (2)..... a63KB27
bushing..... a63KB28
screw (2)..... 2381. a63KB29
" washer (2)..... 489. a63KB30
tripper..... a63KB31
" spring..... a63KB32
" post..... a63KB33
fulcrum stud..... a63KB34
" washer..... a63KB35
" ring..... a63KB36
" hub..... a63KB37
Switch Illuminator group (also in-
cludes a2KB1K, a2KB17, a2KB18 and
a2KB19).

*a63KB1K is assembled with b66KB23,
b66KB3, 66KB35 to a60KB7 and
a60KB23.
*a63KB24K is assembled with a63KB33
and a63KB34.
*a63KB31K is assembled with a63KB37.
For current order and also proof
copier..... a63KB10
Keyboards prior to 10923 were equipped
with Xa63KB1, this part is obsolete.
Order the improved part Xa63KB which
is interchangeable when furnished
complete.

64KB—Switch-box Screw (upper)...... 2222. a64KB1
(lower)..... 2164. a64KB3
nut..... 34. a64KB4
SWITCH-BOX SCREW GROUP..... **Xa64KB8**

65KB—Switch Knife (copper)..... 65KB1 *
body (copper)..... a65KB2K *
brass..... a65KB9
" rivet..... 7169. a65KB10
distance washer..... a65KB3
fulcrum stud..... a65KB6
" nut..... 33. a65KB5
rivet..... 7209. a65KB6
Switch Knife group..... **Xb65KB8**
*a65KB1K is assembled with 66KB1 and
66KB6.

66KB—Illuminator Lamp..... 66KB1
cable (Lamps to Switch)..... b66KB3
" (Switch to Base)..... b66KB3
" terminal (2)..... a66KB7
insulator (fiber)..... 66KB4
" " 66KB6
" bushing..... 66KB6
ILLUMINATOR LAMP GROUP..... **Xa66KB8**

67KB—Attachment Plug (Edison Base)..... 67KB1
cable..... 67KB2
ATTACHMENT PLUG GROUP..... **Xa7KB8**

68KB—Cut Out..... a68KB1
jumper (No. 14B45)..... a68KB4
" screw (2)..... 238. a68KB7
" fuse plug (for 110-volt circuit)..... 68KB2
" lamp (for 220-volt circuit)..... 68KB5
" " adapter (for 68KB5)..... a68KB6
resistance plug (takes place of 68KB5 on
220-volt circuits if carbon filament
lamps are used) (cannot be used in
series with Mazda lamps)..... a68KB9
" fuse plug (when Copy Light is omitted).
surge proof capacitor (for DC)..... a68KB10

69KB—Justifying-scale Weight..... 69KB1
bracket..... 69KB2
" rod (2)..... 69KB3K *
" screw (2)..... 69KB10
" " 69KB11
" pin (2)..... 69KB5
cord..... 69KB6
plug..... 69KB7
spring..... 6189. 69KB8
" plunger..... 69KB9
JUSTIFYING-SCALE WEIGHT GROUP..... **Xa9KB8**
*Each Rod 69KB1K is assembled with one
of 69KB12 (2).

73KB—Unit-rack Lever..... 73KB1K *
hub..... 73KB2
" " 73KB3
spring post..... 886. 73KB4
UNIT-RACK LEVER GROUP..... **Xa73KB8**
*73KB1K is assembled with 73KB2,
73KB3 and 73KB4. Order by complete
symbol Xa73KB1.

74KB—Unit-rack-lever Spring..... 74KB1
plate (2)..... 74KB2
UNIT-RACK-LEVER SPRING GROUP..... **Xa74KB8**

76KB—Unit-rack-stop-guide Bracket...... a76KB1
a76KB3
screw (2)..... 2221. a76KB9
" " 76KB3
" screw (2)..... 2251. a76KB4
UNIT-RACK-STOP-GUIDE BRACKET GROUP..... **Xa76KB8**

Keyboards prior to 10923 were equipped
with 76KB1, 76KB3 and 76KB4. The
parts 76KB1 and 76KB3 are obsolete.
When ordering the new style parts for the
first time order the complete group Xa76KB1.

Section KC

Mechanism for driving the Punctures through the
paper ribbon, and for feeding and winding the paper;
also includes all air valves, pistons and air passages
except those of the Unit-rack Driving Cylinders and
Bell Mechanism.

1KC—Hose (rubber) (air supply) (42" long)..... 1KC1
coupling..... 1KC2
" valve (3/8")..... 1KC3
nozzle..... 1KC4
Hose group..... **X1KC8**

PARTS LIST

2KC -Paper-feed-pawl Lever.....	a2KC1K *
stud (operating 7KC1).....	2KC2
stud (for a0KC1K).....	a2KC3
* cotter.....	a2KC4
* washer.....	a2KC5
* (for 5KC2).....	a2KC6
* cotter.....	a2KC7
* (for 5KC2).....	a2KC8
* cotter.....	a2KC9
* (for a21KC7).....	a2KC10
* cotter.....	a2KC11
* washer.....	a2KC12

PAPER-FEED-PAWL LEVER GROUP.....
 *a2KC1K is assembled with 2KC2 and a2KC3 to a2KC11 inclusive. Order by complete symbol Xa2KC.

3KC -Paper-feed-pawl Ring.....	3KC1K *
adjusting screw (2).....	3KC2
screw (3).....	3KC3
stud (for 5KC1K).....	a3KC4
* washer.....	a3KC5
* cotter.....	a3KC6
* (for 7KC1).....	a3KC7
* washer.....	a3KC8
* (for 7KC1).....	a3KC9

PAPER-FEED-PAWL RING GROUP.....
 *a3KC1K is assembled with a3KC4 to a3KC9 inclusive.

4KC -Paper-feed-piston Link (2).....	4KC1
lever.....	b4KC2 *
* pin (2).....	a4KC3
* plate.....	a4KC4
* stud (for 9KC2).....	b4KC5

PAPER-FEED-PISTON LINK GROUP.....
 *b4KC2K is assembled with b4KC5.

5KC -Paper-feed-ratchet Detent.....	5KC1K *
pin (for 5KC1K).....	5KC2
spring.....	5KC3
* (for 5KC1K).....	5KC4

PAPER-FEED-RATCHET DETENT GROUP.....
 *5KC1K is assembled with 5KC2.

6KC -Paper-feed-ratchet Pawl (driving).....	a6KC1K *
pin (for 5KC1K).....	b6KC2
spring.....	6KC3

PAPER-FEED-RATCHET PAWL GROUP.....
 *a6KC1K is assembled with b6KC2.

7KC -Paper-feed-ratchet Pawl (stop).....	7KC1
guide.....	a7KC2
spring.....	7KC3

PAPER-FEED-RATCHET PAWL GROUP.....
 *7KC1K is assembled with 7KC2.

8KC -Paper Feed Release Plate.....	8KC1K
link.....	b8KC2
spring.....	8KC3
* stud (for b8KC2).....	b8KC4
* cotter.....	a8KC5
* washer.....	a8KC6
* (for 8KC1K).....	a8KC7

PAPER FEED RELEASE PLATE GROUP.....
 *8KC1K is assembled with b8KC5, a8KC6 and a8KC7.

9KC -Paper Feed Rod.....	9KC1
eye.....	9KC2
lock nut (2).....	9KC3
stop nut.....	9KC4
washer (short) (2).....	9KC5
washer (long) (2).....	9KC6

PAPER FEED ROD GROUP.....
 *9KC1K is assembled with 9KC2, 9KC3, 9KC4, 9KC5 and 9KC6.

10KC -Paper Feed Valve.....	10KC1
lever.....	10KC2 *
* pin (for 10KC1).....	10KC3
* roller.....	10KC4
* stud.....	10KC5
* nut.....	10KC6

PAPER FEED VALVE GROUP.....
 *10KC2K is assembled with 10KC3 to 10KC6 inclusive.

11KC -Paper-feed-valve Bracket.....	11KC1K *
plug screw (brass) (2).....	11KC2
screw (4).....	11KC3
stud (for b4KC1K).....	11KC4
* nut.....	11KC5
* washer.....	11KC6
* (for 10KC2K).....	11KC7

PAPER-FEED-VALVE BRACKET GROUP.....
 *11KC1K is assembled with 11KC2, 11KC4 and 11KC7.

12KC -Paper-feed-valve Cam.....	a12KC1
adjusting stud (2).....	12KC2
* nut (2).....	12KC3
screw.....	12KC4
* washer.....	12KC5

PAPER-FEED-VALVE CAM GROUP.....
 *12KC1K is assembled with 12KC2, 12KC3 and 12KC4.

13KC -Paper Feed Wheel (left).....	a13KC1K *
(right).....	13KC2
dowel (2).....	13KC3
pin (22).....	a13KC4
ratchet (driving).....	13KC5
* stop.....	13KC6
* (for 13KC2).....	13KC7
* separating washer.....	13KC8
shaft.....	13KC9
* knob (dimpled).....	13KC10
* set screw.....	13KC11

PAPER FEED WHEEL GROUP.....
 *a13KC1K is assembled with a13KC2, 13KC3, a13KC4, 13KC5, 13KC6, a13KC7, 13KC8 and 13KC9.

NOTE: To replace a broken PAPER-FEED-WHEEL SHAFT 13KC9 requires special tools (the distance between the WHEELS must be exact) and we do not, therefore, furnish these SHAFTS separately. If the customer chooses to send in his old PAPER FEED WHEELS for repair we will repair and return them to him.

14KC -Paper Shaft (for supply roll).....	14KC1
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For special purposes (such as winding the ribbon at the Casting Machine) the double flange Paper Spool is furnished as follows:

15KC -Paper Spool (special) (3 1/2" flange).....	a15KC1K *
at each end flange (2).....	15KC2
tube (inner).....	15KC3
* (outer).....	a15KC4

PAPER SPOOL GROUP (special).....
 *a15KC1K is assembled with 15KC2 and a15KC3. Order by symbol X15KC.

16KC -Paper-spool Shaft.....	a16KC1K *
head.....	a16KC2
* spring.....	a16KC3
* washer.....	a16KC4

PAPER-SPOOL SHAFT GROUP.....
 *a16KC1K is assembled with a16KC2, a16KC3 and a16KC4. Order by the complete symbol Xa16KC.

17KC -Paper-spool-shaft Bearing (left).....	17KC1
nut.....	a17KC2
spring.....	17KC3

PAPER-SPOOL-SHAFT BEARING GROUP.....
 *17KC1K is assembled with a17KC2 and 17KC3.

18KC -Paper Tower (complete, for shipment purposes).....	a18KC1K *
PAPER TOWER	18KC1
cylinder.....	18KC2
* die (for X2KC).....	18KC3
* screw (4).....	18KC4
* dowel (2).....	18KC5
* head (2).....	18KC6
* screw (8).....	18KC7
* screw (4).....	18KC8
* slide (2).....	18KC9
* stop screw (2).....	18KC10
housing (left).....	18KC11
* pin.....	18KC12
* knob.....	18KC13
* dowel.....	18KC14
* pin.....	18KC15
* screw (2).....	18KC16
* (right).....	18KC17
* paper wind shaft.....	18KC18
* pin.....	18KC19
* pin to engage a18KC1K.....	18KC20
* spring post (for 22KC2).....	18KC21
* washer.....	18KC22
* screw (2).....	18KC23
* spring post (for 5KC2).....	18KC24
* stop bracket (for a21KC7).....	18KC25
* stud (for a23KC1K).....	18KC26
* cotter.....	18KC27
* washer.....	18KC28
* punch guide (front).....	18KC29
* (rear).....	18KC30
* index plate.....	18KC31
* knob.....	18KC32
* screw (left, long).....	18KC33
* (right, short).....	18KC34
* (2).....	18KC35
* bar guide (front).....	18KC36
* (rear).....	18KC37
* screw (2).....	18KC38
* tension arm (for Xa18KC34K).....	18KC39
* key (for 18KC38).....	18KC40
* lever (for a12KC1).....	18KC41

19KC -Paper Tower (continued).....	19KC1
---	-------

tension arm lever clamp screw..... 223..... 18KC37

* * above..... a18KC39

* rivet (2)..... 7182..... a18KC40

PAPER TOWER GROUP.....
 *a18KC1K is assembled with Xa2KC, Xa3KC, Xa4KC, Xa5KC, Xa6KC, Xa7KC, Xa8KC, Xa9KC, Xa10KC, Xa11KC, Xa12KC, Xa13KC, Xa14KC, Xa15KC, Xa16KC, Xa17KC, Xa18KC and 47KC1.

18KC2K is the same as 18KC1K (see above) and must be assembled with the same parts, except that it does not include the four screws 18KC14 and 18KC21.

18KC10K is assembled with 18KC13.

18KC18K is assembled with 18KC18.

18KC29K is assembled with a18KC41.

(Can be applied only in our factory and requires 18KC2 to be applied at the same time.)

18KC34K is assembled with a18KC39 and a18KC40.

PAPER TOWER HOUSING PUNCH LOCK KNOB..... 18KC47

Stop (2)..... 836..... 18KC47

19KC-Paper-tower Cover (rear)..... a19KC1K *

* pin (2)..... 19KC2

PAPER-TOWER COVER GROUP.....
 *a19KC1K is assembled with 19KC2. Order by the complete symbol Xa19KC.

20KC-Paper-tower Cover (front, large)..... 20KC1

(front, small)..... 20KC2

screw (5)..... 241..... 20KC3

PAPER-TOWER COVER (front) GROUP.....
 *20KC1K is assembled with 20KC2 and 20KC3.

21KC-Paper Wind Lever..... 21KC1K *

driving rod..... a21KC7

stud (for b4KC1K)..... a21KC2

* cotter..... a21KC3

* washer..... a21KC4

* (for a21KC7)..... a21KC5

* cotter..... a21KC6

spring post..... 839..... a21KC7

PAPER WIND LEVER GROUP.....
 *21KC1K is assembled with a21KC2 to a21KC7 inclusive and a21KC8.

22KC-Paper Wind Ratchet..... 22KC1K *

spring..... 6125..... 22KC2

* post (in 22KC1K)..... 870..... 22KC3

PAPER WIND RATCHET GROUP.....
 *22KC1K is assembled with 22KC3.

23KC-Paper-wind-ratchet Detent..... a23KC1K *

pin..... a23KC2

spring..... a23KC3

PAPER-WIND-RATCHET DETENT GROUP.....
 *a23KC1K is assembled with a23KC2 and a23KC3.

24KC-Paper-wind-ratchet Pawl..... b24KC1K *

pin..... b24KC2

spring (long)..... 8142..... a24KC3

(short)..... 8145..... a24KC4

* post (for a24KC4)..... 871..... a24KC5

PAPER-WIND-RATCHET PAWL GROUP.....
 *b24KC1K is assembled with a24KC2 and a24KC3.

25KC-Paper-feed-release-plate-link Bracket..... b25KC1K *

* pin..... b25KC2

* screw (2)..... 2251..... 25KC3

PAPER-FEED-RELEASE-PLATE-LINK GROUP.....
 *b25KC1K is assembled with a25KC2.

25KC-Pipe (in a25KC1K to a25KC8)..... 25KC1

Pin group (end)..... 25KC2

27KC-Pipe (in a27KC1K to a27KC4, right)..... a27KC1

(in a27KC1K to a27KC4, left)..... a27KC2

lock nut (for a27KC1 and a27KC2) (2)..... a27KC3

Pin group (female end) (2)..... a27KC4

28KC-Piston (regular) (9-16" diam.) (37)..... 28KC1

(for 28KC1K) (11-16" diam.)..... 28KC2

(for 40KC1K)..... 28KC3

PISTON GROUP.....
 *28KC1K is assembled with 28KC2 and 28KC3.

29KC—Piston Block	
plate (cover for Tension Arm Piston)	29KC1K *
pin (for 29KC10)	29KC2K
* screw (2)	232
plug screw (brass) (4)	2235
screw (8)	2199
space switch piston	29KC9
* spring	6135
valve plunger	29KC12
* bushing	29KC13
link	29KC14
spring post (for 30KC5)	851
valve (for shifting the reverse)	29KC15
bushing	29KC16
handle	29KC17
pin	7139
spring	633
Piston Block group	X30KC
*29KC1K is assembled with 29KC12 and 29KC16.	
129KC2K is assembled with 29KC3.	

30KC—Piston-block Base	30KCR1K *
bracket (left)	30KC2K
bracket (right)	30KC3K
* plate (for Pipes)	30KC4K
* screw (lower, long) (2)	222
* screw (rear, short) (2)	223
* screw (4)	714
pipes (from Plunger 1)	30KC8K
4)	30KC9K
15)	30KC10K
6)	30KC11K
13)	30KC12K
10)	30KC13K
2)	30KC14K
14)	30KC15K
7)	30KC16K
16) (.0005 justifying)	30KC17K
9)	30KC18K
1)	30KC19K
12)	30KC20K
3)	30KC21K
6)	30KC22K
8)	30KC23K
B)	30KC24K
11)	30KC25K
D)	30KC26K
A)	30KC27K
8)	30KC28K
17) (.0075 justifying)	30KC29K
E)	30KC30K
K)	30KC31K
D)	30KC32K
H)	30KC33K
O)	30KC34K
F)	30KC35K
N)	30KC36K
D)	30KC37K
G)	30KC38K
J)	30KC39K
L)	30KC40K
M)	30KC41K
C)	30KC42K
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46KC—Paper-spool Guide

plate (right).....	a46KC1K *
" (left).....	a46KC2 *
rod (2).....	46KC3 *
PAPER-SPOOL GUIDE group.....	Xa46KC
*a46KC1K is assembled with a46KC2 and 46KC3. Order by complete symbol Xa46KC.	

47KC—Paper-spool-guide Screw (4)..... 47KC1

48KC—Paper Spool	
(standard) (2 1-2" single flange) flange.....	a48KC1K *
tube (inner).....	48KC2 *
" (outer).....	a48KC3 *
" head.....	a48KC4 *
PAPER SPOOL group.....	X48KC
*a48KC1K is assembled with 48KC2, a48KC3 and a48KC4. Order by complete symbol X48KC.	

66KC—Piston-block-base-pipe-bracket

Cap (for b39KC29).....	a66KC1
screw (2).....	233
PISTON-BLOCK-BASE-PIPE-BRACKET CAP group.....	Xa66KC

70KC—Paper Spool (standard) (3 1-2"

single flange) flange.....	70KC1K *
tube (inner).....	70KC2 *
" (outer).....	70KC3 *
" head.....	70KC4 *
PAPER SPOOL group.....	X70KC
*70KC1K is assembled with 70KC2, 70KC3 and 70KC4. Order by complete symbol X70KC.	

(ATTACHMENT a15KU)

Justified Letter Spacing Attachment

Object: To allow "Characters" to be justified as well as "Spaces." To facilitate the composition of Justified Letter-Spaced Copy.

This attachment comprises the following parts:

16KB—Justifying Scale Pointer Lifting Pawl	
(safety) Pin.....	16KB2
" spring post.....	16KB4

16KB—Justifying Scale Pointer Lifting Pawl (cont'd)

(safety) (assembled).....	16KB5K *
*16KB5K is assembled with 16KB2 and 16KB4.	

17KB—Justifying Scale Pointer Operating Lever

(assembled).....	17KB9K
bush.....	17KB10
eccentric bushing.....	17KB11
fulcrum pin.....	17KB12
" nut.....	17KB13
link.....	17KB14
pin.....	17KB15
" roller.....	17KB16
" washer.....	17KB17
*17KB9K is assembled with 17KB10.	

20KC—Paper Tower Cover (front, large)

(assembled).....	20KC10K
------------------	---------

33KC—Punch Bar (middle, "O")

(assembled).....	33KC8K *
Make-up plate.....	33KC9
" rivet (2).....	33KC10
*33KC8K is assembled with 33KC9 and 33KC10.	

34KC—Punch Bar Lever (left hand) (bent)

(assembled).....	a34KC21K *
bracket.....	34KC22K
" pin (2).....	a34KC17
connecting pin.....	a34KC23
" operating sleeve.....	a34KC24
return spring.....	34KC25
" book plate.....	34KC26
" post.....	34KC27
bracket make-up washer (For brackets not having base for operating lever handle).....	34KC28
*a34KC21K is assembled with a34KC27.	

84KC—Actuating Lever (assembled).....

bushing.....	a84KC1K *
" Collar.....	84KC2
*a84KC1K is assembled with 84KC2 and 84KC3.	

85KC—Operating Lever (assembled).....

crank pin.....	a85KC1K *
handle.....	85KC2
" pin.....	85KC3
locking plunger.....	85KC5
" spring.....	a85KC6

*a85KC1K is assembled with 85KC2 to 85KC4 inclusive.

89KC—Punch Bar Rocking Lever..... a89KC1**Miscellaneous Supplies**

VACUUM CLEANER	
cup.....	39L1
" cap.....	39L2
" roller.....	39L3
" spring.....	39L4
" pin.....	39L5
" latch.....	39L6
" rivets (2).....	7168
hose connection.....	a39L8
" elbow.....	a39L9
nozzle.....	39L10
pipe (to 39L1) (1-8" iron).....	39L11
" tee (1-8" iron).....	39L12
suction pipe.....	39L13
VACUUM CLEANER group.....	X39L
VACUUM CLEANER HOSE (specify length).....	1KC1
MONOTYPE CONTROLLER PAPER: The flexible connection between the Keyboard and the Composing Machine, packed in cases containing about 100 lbs.	
KEYBOARD OIL, sold in pint and gallon cans.	
SCREWDRIVER 4" x 1-8".....	22L1
7 1-2" x 1-4".....	22L3
7 1-2" x 3-8".....	22L4
KEYBOARD COVER, Style D.....	
WRENCHES	
No. 82 (5-16" x 13-32").....	
No. 83 (13-32" x 1-2").....	
No. 810 (9-32" x 5-16").....	
No. 824 (3-4" box x 5-8" open).....	
No. 825 (7-32").....	
OIL CAN (Small).....	70L1
BRUSH 1".....	
KEYBOARD PLATE BOOK	
KEYBOARD ADJUSTMENT BOOK.....	
STRAIGHT MATTER COMPOSITION (including Matrix Case Arrangements).....	
MATRIX CASE ARRANGEMENTS AND KEYBOARD LAYOUT.....	
TABULAR COMPOSITION WITH APPENDIX ON PLATE GOVERNS.....	
COPYFITTING (book only).....	
TABLE CHANGING PICA EMER.....	
PAPER EM SCALES.....	

Waiting for Inspiration, rushing things
in reliance upon Inspiration, and all the rest
of it, are a lazy man's habits. Get the bones of
the work well into your head, and the tools
well into your hand, and get on with your job,
and the Inspiration will come to you: *if you're
worth a tinker's damn as an artist, that is!*

BULMER, 462

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BEMBO, 405

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and the Inspiration will come to you: *if you're
worth a tinker's damn as an artist, that is!*

DEEPDENE, 315

monotype . . . sets better . . . prints better . . . looks better . . .

FOURNIER, 403

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JANSON, 401

Waiting for Inspiration, rushing things
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well into your hand, and get on with your job,
and the Inspiration will come to you: *if you're
worth a tinker's damn as an artist, that is!*

VALIANT, 412



AMERICA'S

most complete

CONTEMPORARY

TYPE SERIES:

monotype

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20th Century Bold Italic, 604I

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20th Century Extrabold, 603

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20th Century Extrabold Italic, 603I

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20th Century Ultrabold, 609

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20th Century Ultrabold Italic, 609I

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20th Century Medium Condensed, 608

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20th Century Medium Condensed Italic, 608I

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20th Century Extrabold Condensed, 607

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20th Century Extrabold Condensed Italic, 607I

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20th Century Ultrabold Condensed, 610

Learn Monotype Keyboard & Caster Operational Technique the **Monotype** Way

✓ Complete courses in Monotype Keyboard and Caster Operation are offered to employees of Monotype owners at the Main Office, 24th & Locust Streets, Philadelphia. Small classes, individual attention, and able instructors simplify the learning of the Monotype system. Courses are also offered on Material Makers, Giant Casters and Monotype-Thompsons. A postcard will bring complete information.

LANSTON MONOTYPE MACHINE COMPANY

24th & Locust Streets, Philadelphia 3, Pennsylvania